



DAYBREAK OIL AND GAS, INC.

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OFFICE: (509) 232-7674

SPOKANE VALLEY, WA 99212
FAX: (509) 232-2220

June 16, 2016

Ronald Holcomb
Central Valley Water Board
1685 E Street
Fresno, CA 93706

SUBJECT: Little Creek Properties, Inc.: Black Satin (APN: 060-290-08) and Salisbury Leases (APN: 061-071-19), Mount Poso Oil Field, Kern County, California

Dear Mr. Holcomb;

This report is being submitted by Daybreak Oil and Gas, Inc. ("Daybreak") on behalf of Little Creek Properties, Inc. ("Little Creek") in response to the Central Valley Regional Water Quality Control Board directive pursuant to Section 13267 of the California Water Code in a letter sent to Clarence Marshall, C.E.O. of Little Creek dated May 2, 2016.

Daybreak is submitting this report on behalf of Little Creek, because Daybreak has direct knowledge of any chemicals or additives used in the production, treatment and transportation of oil field produced waters that are used for irrigation. Little Creek does not add any chemicals or additives to their produced waters that are used for irrigation on the Black Satin and Salisbury leases.

The Daybreak produced water is transported to the Black Satin and Salisbury leases through flowlines running from the Daybreak central production facility to the Clarence Marshall property. Approximately 10% (ten percent) of the Daybreak produced water is used for livestock watering and 90% (ninety percent) is used for irrigation. Any chemicals or additives used in the production, treatment and transportation of oil field produced waters that are used for irrigation are added to the water that is transported through flowlines before the water enters the Clarence Marshall property.

Sincerely,

Bennett W. Anderson

Bennett W. Anderson
Chief Operating Officer

CERTIFICATION STATEMENT

Daybreak Oil and Gas, Inc.

Little Creek Properties, Inc.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Bennett W. Anderson

Signature

Bennett W. Anderson

Name

Chief Operating Officer – Daybreak Oil and Gas, Inc.

Title

June 17, 2016

Date

Cheryl Marshall

Signature

Cheryl Marshall

Name

Associate – Little Creek Properties, Inc.

Title

June 17, 2016

Date

1. Refer to the table below for the total volume of produced water from Daybreak and Little Creek since January 1, 2014 by calendar quarters. All amounts shown below are in barrels (42 gallons per barrel).

Calendar Quarter	Produced Water (Barrels)
1 st Quarter 2014 (January 1 – March 31)	536,169
2 nd Quarter 2014 (April 1 – June 30)	551,158
3 rd Quarter 2014 (July 1 – September 30)	579,568
4 th Quarter 2014 (October 1 – December 31)	595,312
Calendar Year 2014 Total	2,262,207
1 st Quarter 2015 (January 1 – March 31)	313,850
2 nd Quarter 2015 (April 1 – June 30)	445,900
3 rd Quarter 2015 (July 1 – September 30)	379,139
4 th Quarter 2015 (October 1 – December 31)	295,439
Calendar Year 2015 Total	1,434,328
1 st Quarter 2016 (January 1 – March 31)	313,172
2 nd Quarter 2016 - Partial (April 1 – May 31)	225,123
Calendar Year 2016 Total (Through May 31)	538,295
Report total	4,234,830

2. A list of all chemicals and additives used in petroleum production, treatment, and transportation processes that generate produced water that is used for irrigation of crops.
 - a. A description of the purpose of each chemical or additive. Daybreak adds a mix of four chemical products to its produced water. These products are:

Product Name	Stock Number	Purpose
Water Clarifier	WC 601	Mixes with the water to make the water cleaner
Reverse Breaker	WC 572	Mixes with the water to separate the oil and water
Emulsion Breaker	EB 406	Mixes with the oil to separate the oil and water
Defoamer	DF 334	Mixes with the produced fluid to separate the gas from the oil and water

Our chemical supplier is TerraChem Inc., located in Fellows, California. For a more detailed description of each chemical used in treating our produced water, please review the included Materials Safety Data Sheets provided by TerraChem.

- b. A description of how each chemical or additive is used.

Product Name	Stock Number	How each chemical is used
Water Clarifier	WC 601	Continuous pump injection in the flow lines
Reverse Breaker	WC 572	Continuous pump injection in the flow lines
Emulsion Breaker	EB 406	Continuous pump injection in the flow lines
Defoamer	DF 334	Continuous pump injection in the flow lines

- c. The frequency of use of each chemical or additive. These rates reflect the volume of usage during the most recently completed quarter, which was January 1 through March 31, 2016.

Product Name	Stock Number	Frequency of Use
Water Clarifier	WC 601	One gallon per day
Reverse Breaker	WC 572	One gallon per day
Emulsion Breaker	EB 406	One and one-half gallons per day
Defoamer	DF 334	Two months of the year; one and one-half gallons per day

- d. The total volumes of each chemical or additive used during each quarter from January 1, 2014 through June 16, 2016. All amounts shown in the table below are in gallons.

Calendar Quarter	Water Clarifier	Reverse Breaker	Emulsion Breaker	Defoamer
	WC 601	WC 572	EB 406	DF 334
1 st Qtr 2014	245	261	151	94
2 nd Qtr 2014	241	233	91	0
3 rd Qtr 2014	220	298	227	0
4 th Qtr 2014	102	243	180	0
2014 Total	808	1,035	649	94
1 st Qtr 2015	102	195	118	0
2 nd Qtr 2015	116	91	90	0
3 rd Qtr 2015	113	159	159	0
4 th Qtr 2015	143	170	112	0
2015 Total	474	615	479	0
1 st Qtr 2016	95	95	159	153
2 nd Qtr 2016	0	0	0	0
2016 Total	95	95	1259	153
Report Total	1,377	1,745	1,287	247



HMIS Health:	1
HMIS Flammability:	0
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

WC 601

Date Effective 01/7/2015

Water Clarifier**Section One: Product Identification**

Trade Name	WC 601
Chemical Use	Cationic Water Soluble Polymer
Chemical Formula	Confidential
CAS Number	Proprietary Blend

Supplier	TerraChem, Inc. 26868 Henry Rd. Fellows, Ca. 93224 (661) 769-9091
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Chemical Emergency 24 Hour:**Info-Trac 1-800-535-5053****Section Two: Hazardous Identification****Classification of substance or mixture****OSHA/HCS Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS-US Classification(s)	Type	Category	Code	Hazard Statement(s) (GHS-US)
	Eye Irritant	4	H319	Causes eye irritation
	Skin Irritant	4	H315	Causes skin irritation

GHS-US Precaution(s)**Code Precautionary Statements (GHS-US)**

P264	Wash hands, forearms, and exposed areas thoroughly after handling.
P280	Wear eye protection, protective clothing, protective gloves.
P303+P361+P353	Skin contact, remove contaminated clothing. Rinse skin with water or shower.
P304 + P340	For inhalation, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	Eye contact, rinse cautiously with water for several minutes.
P313+P337	If eye irritation persists, get medical advice.
P312	Call poison center if not feeling well

Disclaimer For further information, please contact the manufacturer listed above. This information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This Safety Data Sheet was prepared to comply with OSHA Hazardous Communication Standard (29 CFR 1910.1200) and the Workplace Hazardous Materials Information System (WHIMS).



HMIS Health:	1
HMIS Flammability:	0
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

WC 601

Date Effective 01/7/2015

Water Clarifier**GHS Label Elements****Hazard Pictograms****Signal Word** **WARNING****Other hazard(s) information**

Routes of Entry	Skin contact, eye contact, inhalation, ingestion.
Potential Health Effects	This product may cause eye, skin, or respiratory irritation.
Carcinogenicity (NTP)	This product is not believed to be carcinogenic.
Carcinogenicity (IARC)	This product is not believed to be carcinogenic.
Carcinogenicity OSHA	This product is not believed to be carcinogenic.

Section Three: Composition

CAS Number	Component Common Name	TWA	STEL	PEL	Weight Percent
NA	Not Hazardous as defined in 29 CFR 1910.1200	NE	NE	NE	100%

Section Four: First Aid Measures

Eyes	Flush eyes with water for at least 15 minutes. Seek medical attention.
Skin	Remove contaminated clothing. Flush skin with water.
Ingestion	Drink 3-4 glasses of water. Do not induce vomiting. Seek medical help immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call a physician.

Section Five: Fire Fighting Measures

Flammable Limits, Flash Point	>300° F PMCC
Flammable Limits in Air - LEL	ND
Flammable Limits in Air - UEL	ND
Auto Ignition Temperature	Does not ignite
General Hazards	Product presents no unusual hazard if involved in a fire; presents little or no hazard if spilled, but is slippery, so caution is advised to avoid falling.
Extinguishing Media	Dry chemical, carbon dioxide, water spray.

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HMIS Health:	1
HMIS Flammability:	0
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

WC 601

Date Effective 01/7/2015

Water Clarifier

Fire Fighting Equipment	Protective clothing.
Fire and Explosion Hazards	No unusual hazards expected.
Hazardous Combustion Products	Not available.
Sensitivity to Mechanical Impact	Not expected.
Sensitivity to Static Discharge	Not expected.
Additional Information	Spills produce extremely slippery surfaces.

Section Six: Accidental Release Measures

Accidental Release Measures	Contain spill and salvage as much material as possible. Then pick up the remaining with absorbent.
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Section Seven: Handling and Storage**Handling and Storage Guidelines**

Keep container tightly closed. Do not consume food, drink, or tobacco in areas where they may become contaminated by this material.

Section Eight: Exposure Control/Personal Protection

Personal Protective Equipment	Wear appropriate equipment to prevent probability of exposure.
Eye Protection	Goggles or glasses with side shields.
Skin Protection	Wear impervious gloves as a standard handling procedure.
Respiratory Protection	Use NIOSH approved respiratory protection where exposure levels exceed regulatory limits.
Engineering Controls	NA
Mechanical Exhaust	NA
Local Exhaust	NA
Emergency Response Protection	No additional specialized equipment should be required.

Section Nine: Physical and Chemical Properties

Physical Form	Slight Viscous Liquid
Appearance	Milky
Odor	Mild
Odor Threshold	None
Boiling Point	>212F
Melting Point	NA
Freezing Point	<32° F
Flash Point	NA
Flammability	NA
Specific Gravity	1.00—1.05 (+/- 0.02)
Bulk Density	8.34-8.36 lbs. / gallon
pH	6.5-7.5
Solubility in Water	Dispersible

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HMIS Health:	1
HMIS Flammability:	0
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

WC 601

Date Effective 01/7/2015

Water Clarifier

NA (n-Butyl Acetate = 1)

Evaporation Rate**Vapor Pressure** NA (mm Hg @ 68° F)

NA (Air = 1)

Vapor Density**Volatile Organic(s)** NA**Auto Ignition Temp** NA**Decomposition Temp** NA**Viscosity** Dynamic**Section Ten: Stability and Reactivity****Stability** Stable at normal temperatures and operating conditions.**Incompatibilities** None known.**Decomposition** Decomposition yields carbon dioxide.**Polymerization** Polymerization will not occur.**Section Eleven: Toxicological Information****Eye Irritation** Eye contact may be painful and irritating.**Skin Irritation** Prolonged and repeated skin exposure may be painful and irritating.**Inhalation Toxicity** Inhalation of this product during manufacturing may be irritating.

Not evaluated.

Sensitization**Chronic/Carcinogenicity** Not evaluated.**Reproduction** Not evaluated.**Mutagenicity** Not a mutagen.**Acute Oral Effects** Not evaluated.**Acute Dermal Toxicity** Not evaluated.**Additional Information** Not a tertogen**Section Twelve: Ecological Information****Ecotoxicity** Not evaluated.**Biological Oxygen Demand (BOD⁵)** Not evaluated.**Chemical Oxygen Demand** Not evaluated.**Activated Sludge Respiration Inhibition Test** Not evaluated.**Additional Information** No additional information available.**Section Thirteen: Disposal Considerations****Container Disposal Management** Dispose of in accordance with local, state, and federal regulations.

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HMIS Health:	1
HMIS Flammability:	0
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

WC 601

Date Effective 01/7/2015

Water Clarifier**RCRA Hazard Class**

Under RCRA, it is the responsibility of the user to determine, at the time of disposal, whether the material meets RCRA criteria for hazardous waste.

Waste Disposal Method

Dispose of in accordance with local, state, and federal regulations.

Section Fourteen: Transport Information**DOT Hazard Class**

Not Regulated.

DOT Proper Shipping Name

DOT Not Regulated – WC 601

NA

Packing Group**UN Number**

NA

NA Number

NA

Packaging Size

Carboys/Pails, Drums, and Bulk.

Section Fifteen: Regulatory Information**SARA 302/304 RQ**

NA

SARA 302/304 TPQ

NA

SARA 311/312 Acute

Yes

SARA 311/312 Chronic

NA

SARA 311/312 Fire

NA

SARA 311/312 Pressure

NA

NA

SARA 311/312 Reactivity**SARA 313 List**

NA

CERCLA RQ

NA

TSCA Status

All components are registered on TSCA inventory.

CAA

NA

CWA

NA

No additional information available.

Additional Information**Section Sixteen: Other Information**

HMIS Hazard Classification	Health	Flammability	Physical Hazard	Personal Protection
Classification Code	1	0	0	C
NFPA Hazard Classification	Health	Flammability	Instability	Special Hazards
Classification Code or Markings	1	0	0	

Explanation of NFPA Special Symbols**OX**

Oxidizer; a chemical that can increase the rate of combustion or fire.

W

Reactive with water; avoid using water when fighting a fire involving material.

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HMIS Health:	1
HMIS Flammability:	0
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

WC 601

Date Effective 01/7/2015

Water Clarifier

Corrosive material(s); can be corrosive in either an acid or alkaline state.



Poison or highly toxic material(s).



Explosive material(s); redundant notation of instability.



Radioactive material(s); extremely harmful to handle or inhale.



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HMIS Health:	1
HMIS Flammability:	0
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

WC 572

Date Effective 01/7/2015

Reverse Breaker**Section One: Product Identification**

Trade Name	WC 572
Chemical Use	Reverse Breaker
Chemical Formula	Confidential
CAS Number	Proprietary Blend

Supplier	TerraChem, Inc. 26868 Henry Rd. Fellows, Ca. 93224 (661) 769-9091
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Chemical Emergency 24 Hour:

Info-Trac 1-800-535-5053

Section Two: Hazardous Identification

Classification of substance or mixture

OSHA/HCS Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS-US Classification(s)	Type	Category	Code	Hazard Statement(s) (GHS-US)
	Eye Irritant	4	H319	Causes eye irritation
	Skin Irritant	4	H315	Causes skin irritation

GHS-US Precaution(s)	Code	Precautionary Statements (GHS-US)
	P264	Wash hands, forearms, and exposed areas thoroughly after handling.
	P280	Wear eye protection, protective clothing, protective gloves.
	P303+P361+P353	Skin contact, remove contaminated clothing. Rinse skin with water or shower.
	P304 + P340	For inhalation, remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338	Eye contact, rinse cautiously with water for several minutes.
	P313+P337	If eye irritation persists, get medical advice.
	P312	Call poison center if not feeling well

Signal Word WARNING

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HMIS Health:	1
HMIS Flammability:	0
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

WC 572

Date Effective 01/7/2015

Reverse Breaker**Other hazard(s) information**

Routes of Entry	Skin contact, eye contact, inhalation, ingestion.
Potential Health Effects	This product may cause eye, skin, or respiratory irritation.
Carcinogenicity (NTP)	This product is not believed to be carcinogenic.
Carcinogenicity (IARC)	This product is not believed to be carcinogenic.
Carcinogenicity OSHA	This product is not believed to be carcinogenic.

Section Three: Composition

CAS Number	Component Common Name	TW A	STEL	PEL	Weight Percent
77-92-9	2-Hydroxy-1,2,3 Propanetricarboxylic Acid	NE	NE	NE	<5%
107-21-1	Ethylene Glycol	NE	NE	100 ppm	>10%
Confidential	Proprietary				12-40%

Section Four: First Aid Measures

Eyes	Flush eyes with water for at least 15 minutes. Seek medical attention.
Skin	Remove contaminated clothing. Flush skin with water.
Ingestion	Do not induce vomiting. Seek medical help immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call a physician.

Section Five: Fire Fighting Measures

Flammable Limits, Flash Point	NA
Flammable Limits in Air - LEL	NE
Flammable Limits in Air - UEL	NE
Auto Ignition Temperature	NA
General Hazards	No unusual hazards expected.
Extinguishing Media	Dry chemical, carbon dioxide, water spray.
Fire Fighting Equipment	Wear self-contained breathing apparatus and protective clothing.
Fire and Explosion Hazards	No unusual hazards expected.
Hazardous Combustion Products	Contact with metal may produce flammable hydrogen gas.
Sensitivity to Mechanical Impact	Not expected.
Sensitivity to Static Discharge	Not expected
Additional Information	No additional information available.

Section Six: Accidental Release Measures

Accidental Release Measures	Contain spill and salvage as much material as possible. Then pick up the remaining with absorbent.
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Section Seven: Handling and Storage

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HMIS Health:	1
HMIS Flammability:	0
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

WC 572

Date Effective 01/7/2015

Reverse Breaker**Handling and Storage Guidelines**

Keep container tightly closed. Do not consume food, drink, or tobacco in areas where they may become contaminated by this material.

Section Eight: Exposure Control/Personal Protection**Personal Protective Equipment**

Wear appropriate equipment to prevent probability of exposure.

Eye Protection

Goggles or glasses with side shields.

Skin Protection

Wear impervious gloves as a standard handling procedure.

Respiratory Protection

Use NIOSH approved respiratory protection where exposure levels exceed regulatory limits.

Engineering Controls

Do not aerosolize.

Mechanical Exhaust

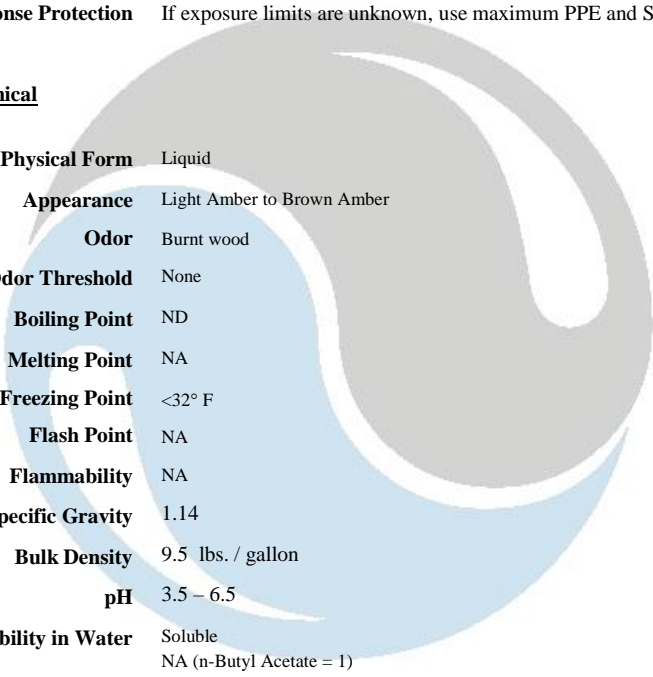
Required in confined spaces.

Local Exhaust

Recommended to keep fumes from concentrating.

Emergency Response Protection

If exposure limits are unknown, use maximum PPE and SCBA for positive pressure air supply.

Section Nine: Physical and Chemical Properties


Physical Form	Liquid
Appearance	Light Amber to Brown Amber
Odor	Burnt wood
Odor Threshold	None
Boiling Point	ND
Melting Point	NA
Freezing Point	<32° F
Flash Point	NA
Flammability	NA
Specific Gravity	1.14
Bulk Density	9.5 lbs. / gallon
pH	3.5 – 6.5
Solubility in Water	Soluble NA (n-Butyl Acetate = 1)
Evaporation Rate	
Vapor Pressure	NA (mm Hg @ 68° F) NA (Air = 1)
Vapor Density	
Volatile Organic(s)	<25 gm/1000 ml.
Auto Ignition Temp	NA
Decomposition Temp	NA
Viscosity	Dynamic

Section Ten: Stability and Reactivity

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HMIS Health:	1
HMIS Flammability:	0
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

WC 572

Date Effective 01/7/2015

Reverse Breaker

Stability	Stable at normal temperatures and operating conditions.
Incompatibilities	Strong oxidizing agents and acids.
Decomposition	Decomposition yields Sulfur Dioxide, Hydrogen Sulfide, Nitrous Oxide, and Ammoniacal vapors.
Polymerization	Polymerization will not occur.

Section Eleven: Toxicological Information

Eye Irritation	Eye contact may be painful and irritating.
Skin Irritation	Prolonged and repeated skin exposure may be painful and irritating.
Inhalation Toxicity	Inhalation of this product during manufacturing may be irritating. Not evaluated.
Sensitization	
Chronic/Carcinogenicity	Not evaluated.
Reproduction	Not evaluated.
Mutagenicity	Not evaluated.
Acute Oral Effects	Not evaluated.
Acute Dermal Toxicity	Not evaluated.
Additional Information	Not evaluated.

Section Twelve: Ecological Information

Ecotoxicity	Not evaluated.
Biological Oxygen Demand (BOD⁵)	Not evaluated.
Chemical Oxygen Demand	Not evaluated.
Activated Sludge Respiration Inhibition Test	Not evaluated.
Additional Information	No additional information available.

Section Thirteen: Disposal Considerations

Container Disposal Management	Dispose of in accordance with local, state, and federal regulations.
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Under RCRA, it is the responsibility of the user to determine, at the time of disposal, whether the material meets RCRA criteria for hazardous waste.

RCRA Hazard Class	
Waste Disposal Method	Dispose of in accordance with local, state, and federal regulations.

Section Fourteen: Transport Information

DOT Hazard Class	Not Regulated.
DOT Proper Shipping Name	DOT Not Regulated – WC 572 NA
Packing Group	
UN Number	NA
NA Number	NA

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HMIS Health:	1
HMIS Flammability:	0
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

WC 572

Date Effective 01/7/2015

Reverse Breaker

Packaging Size Carboys/Pails, Drums, and Bulk.

Section Fifteen: Regulatory Information

SARA 302/304 RQ	Yes, Ethylene Glycol has an RQ of 5000 lbs.
SARA 302/304 TPQ	NA
SARA 311/312 Acute	Yes
SARA 311/312 Chronic	Yes
SARA 311/312 Fire	NA
SARA 311/312 Pressure	NA
SARA 311/312 Reactivity	NA
SARA 313 List	Yes, Ethylene Glycol has an RQ of 5000 lbs.
CERCLA RQ	Yes, Ethylene Glycol has an RQ of 5000 lbs.
TSCA Status	All components are registered on TSCA inventory.
CAA	Yes
CWA	Yes
Additional Information	No additional information available.

Section Sixteen: Other Information

HMIS Hazard Classification	Health	Flammability	Physical Hazard	Personal Protection
Classification Code	2	0	0	C
NFPA Hazard Classification	Health	Flammability	Instability	Special Hazards
Classification Code or Markings	2	0	0	

Explanation of NFPA Special Symbols

OX	Oxidizer; a chemical that can increase the rate of combustion or fire.
W	Reactive with water; avoid using water when fighting a fire involving material.
	Corrosive material(s); can be corrosive in either an acid or alkaline state.
	Poison or highly toxic material(s).
	Explosive material(s); redundant notation of instability.
	Radioactive material(s); extremely harmful to handle or inhale.

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HMIS Health:	2
HMIS Flammability:	3
HMIS Physical Hazard:	0
HMIS Personal Protection:	G

EB 406

Date Effective 01/7/2015

Emulsion Breaker**Section One: Product Identification**

Trade Name	EB 406
Chemical Use	Emulsion Breaker
Chemical Formula	Confidential
CAS Number	Proprietary Blend

Supplier	TerraChem, Inc. 26868 Henry Rd. Fellows, Ca. 93224 (661) 769-9091
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Chemical Emergency 24 Hour:

Info-Trac 1-800-535-5053

Section Two: Hazardous Identification

Classification of substance or mixture

OSHA/HCS Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS-US Classification(s)	Type	Category	Code	Hazard Statement(s) (GHS-US)
	Flammable Liquid	3	H225	Highly flammable liquid & vapors
	Eye Irritant	2A	H319	Causes serious eye irritation
	Skin Irritant	2	H315	Causes skin irritation
	Acute Toxicity (inhalation)	4	H332	May displace oxygen and cause suffocation.
	Acute Toxicity (dermal)	4	H312	Harmful in contact with skin or if inhaled.
	Acute Toxicity (digestion)	4	H302	Harmful if swallowed.
GHS-US Precaution(s)			Code	Precautionary Statements (GHS-US)
			P210	Keep away from heat, open flames, sparks. - No smoking.
			P233 & P235	Keep container tightly closed & cool.
			P240	Ground/bond container and receiving equipment.
			P243	Take measures against static discharge.
			P261	Avoid breathing mist, spray & vapors.
			P264	Wash hands, forearms, and exposed areas thoroughly after handling.
			P271 & P403	Use & store outdoors or in a well ventilated area.

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HMIS Health:	2
HMIS Flammability:	3
HMIS Physical Hazard:	0
HMIS Personal Protection:	G

EB 406

Date Effective 01/7/2015

Emulsion Breaker

P280	Wear eye protection, protective clothing, protective gloves.
P303+P361+P353	Skin contact, remove contaminated clothing. Rinse skin with water or shower.
P304 + P340	For inhalation, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	Eye contact, rinse cautiously with water for several minutes.
P313+P337	If eye irritation persists, get medical advice.
P370+P378	In case of fire: Use appropriate media for extinguishing.
P501	Dispose of contents/container according to local, regional, national, and international regulations.

GHS Label Elements**Hazard Pictograms****Signal Word****WARNING****Other hazard(s) information**

Routes of Entry	Skin contact, eye contact, inhalation, ingestion.
Carcinogenicity (NTP)	This product is not believed to be carcinogenic.
Carcinogenicity (IARC)	IARC has classified Ethyl-benzene as a possible human carcinogen (group 2B).
Carcinogenicity (OSHA)	This product is not believed to be carcinogenic.

Section Three: Composition

CAS Number	Component Common Name	TWA	STEL	PEL	Weight Percent
1330-20-7	Xylene	100ppm	150ppm	100 ppm	50-65%
100-41-4	Ethyl Benzene	100ppm	125ppm	100ppm	15-25%
Confidential	Proprietary Ingredients	NE	NE	NE	20-40%

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HMIS Health:	2
HMIS Flammability:	3
HMIS Physical Hazard:	0
HMIS Personal Protection:	G

EB 406

Date Effective 01/7/2015

Emulsion Breaker**Section Four: First Aid Measures**

Eyes	Flush eyes with water for at least 15 minutes. Seek medical attention.
Skin	Remove contaminated clothing. Flush skin with water.
Ingestion	Drink 3-4 glasses of water. Do not induce vomiting. Seek medical help immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call a physician.

Section Five: Fire Fighting Measures

Flammable Limits, Flash Point	>100° F
Flammable Limits in Air - LEL	ND
Flammable Limits in Air - UEL	ND
Auto Ignition Temperature	Not available.
General Hazards	None known.
Extinguishing Media	Foam, dry chemical, carbon dioxide, water spray to cool containers.
Fire Fighting Equipment	Wear self-contained breathing apparatus and protective clothing.
Fire and Explosion Hazards	Containers may explode from internal pressure if confined to fire.
Hazardous Combustion Products	Not available.
Sensitivity to Mechanical Impact	Not expected.
Sensitivity to Static Discharge	Use proper grounding/bonding procedures when handling of storing this product.
Additional Information	No additional information available.

Section Six: Accidental Release Measures

Accidental Release Measures	Avoid sparks or open flames. Contain spill and salvage as much material as possible. Then pick up the remaining with absorbent and store as hazardous waste.
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Section Seven: Handling and Storage

Handling and Storage Guidelines	Keep container tightly closed. Do not consume food, drink, or tobacco in areas where they may become contaminated by this material.
--	---

Section Eight: Exposure Control/Personal Protection

Personal Protective Equipment	Wear appropriate equipment to prevent probability of exposure.
Eye Protection	Goggles or glasses with side shields.
Skin Protection	Wear impervious gloves as a standard handling procedure.
Respiratory Protection	Use NIOSH approved respiratory protection where exposure levels exceed regulatory limits.
Engineering Controls	Do not aerosolize.
Mechanical Exhaust	Required in confined spaces.
Local Exhaust	Recommended to keep fumes from concentrating.
Emergency Response Protection	No additional specialized equipment should be required.

Section Nine: Physical and Chemical Properties

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HMIS Health:	2
HMIS Flammability:	3
HMIS Physical Hazard:	0
HMIS Personal Protection:	G

EB 406

Date Effective 01/7/2015

Emulsion Breaker

Physical Form	Liquid
Appearance	Clear to Dark Amber
Odor	Aromatic Solvent
Odor Threshold	NA
Boiling Point	>250° F
Melting Point	NA
Freezing Point	<10° F
Flash Point	<100F
Flammability	NA
Specific Gravity	0.90-0.92 (+/- 0.02)
Bulk Density	7.5-7.6 lbs. / gallon
pH	NA (5% in IPA/Water)
Solubility in Water	Insoluble
Evaporation Rate	NA (n-Butyl Acetate = 1)
Vapor Pressure	NA (mm Hg @ 68° F)
Vapor Density	>1 (Air = 1)
Volatile Organic(s)	NA
Auto Ignition Temp	809F
Decomposition Temp	NA
Viscosity	Dynamic

Section Ten: Stability and Reactivity

Stability	Stable at normal temperatures and operating conditions.
Incompatibilities	Strong acids and oxidizing agents.
Decomposition	None
Polymerization	Polymerization will not occur.

Section Eleven: Toxicological Information

Eye Irritation	Eye contact may be painful and irritating.
Skin Irritation	Prolonged and repeated skin exposure may be painful and irritating.
Inhalation Toxicity	Inhalation of this product during manufacturing may be irritating.
Sensitization	Not evaluated.
Chronic/Carcinogenicity	IRAC has evaluated ethyl benzene and classified it as a possible human carcinogen.
Reproduction	Not evaluated.
Mutagenicity	Not evaluated.
Acute Oral Effects	Not evaluated.
Acute Dermal Toxicity	Not evaluated.
Additional Information	Not evaluated.

Section Twelve: Ecological Information

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HMIS Health:	2
HMIS Flammability:	3
HMIS Physical Hazard:	0
HMIS Personal Protection:	G

EB 406

Date Effective 01/7/2015

Emulsion Breaker

Ecotoxicity	Not evaluated.
Biological Oxygen Demand (BOD⁵)	Not evaluated.
Chemical Oxygen Demand	Not evaluated.
Activated Sludge Respiration Inhibition Test	Not evaluated.
Additional Information	No additional information available.

Section Thirteen: Disposal Considerations

Container Disposal Management	Dispose of in accordance with local, state, and federal regulations.
RCRA Hazard Class	Possible waste codes include: D001-Ingnitability, U239-Xylenes. Under RCRA, it is the responsibility of the user to determine, at the time of disposal, whether the material meets RCRA criteria for hazardous waste.
Waste Disposal Method	Dispose of in accordance with local, state, and federal regulations.

Section Fourteen: Transport Information

DOT Hazard Class	Flammable Liquid
DOT Proper Shipping Name	RQ, UN1993, Flammable Liquid, N.O.S., (contains Ethyl Benzene, Xylene), 3, PG III
Packing Group	PG III
UN Number	UN1993
NA Number	NA
Packaging Size	Carboys/Pails, Drums, and Bulk.

Section Fifteen: Regulatory Information

SARA 302/304 RQ	Yes, Xylene has an RQ of 100# and Ethyl Benzene has an RQ of 1000#.
SARA 302/304 TPQ	NA
SARA 311/312 Acute	Yes
SARA 311/312 Chronic	Yes
SARA 311/312 Fire	Yes
SARA 311/312 Pressure	NA
SARA 311/312 Reactivity	NA
SARA 313 List	Yes
CERCLA RQ	Yes, Xylene has an RQ of 100# and Ethyl Benzene has an RQ of 1000#.
TSCA Status	All components are registered on TSCA inventory.
CAA	NA
CWA	Yes
Additional Information	No additional information available.

Section Sixteen: Other Information

HMIS Hazard Classification	Health	Flammability	Physical Hazard	Personal Protection
Classification Code	2	3	0	G
NFPA Hazard Classification	Health	Flammability	Instability	Special Hazards
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HMIS Health:	2
HMIS Flammability:	3
HMIS Physical Hazard:	0
HMIS Personal Protection:	G

EB 406

Date Effective 01/7/2015

Emulsion Breaker

Classification Code or Markings

2

3

0

Explanation of NFPA Special Symbols**OX**

Oxidizer; a chemical that can increase the rate of combustion or fire.

W

Reactive with water; avoid using water when fighting a fire involving material.



Corrosive material(s); can be corrosive in either an acid or alkaline state.



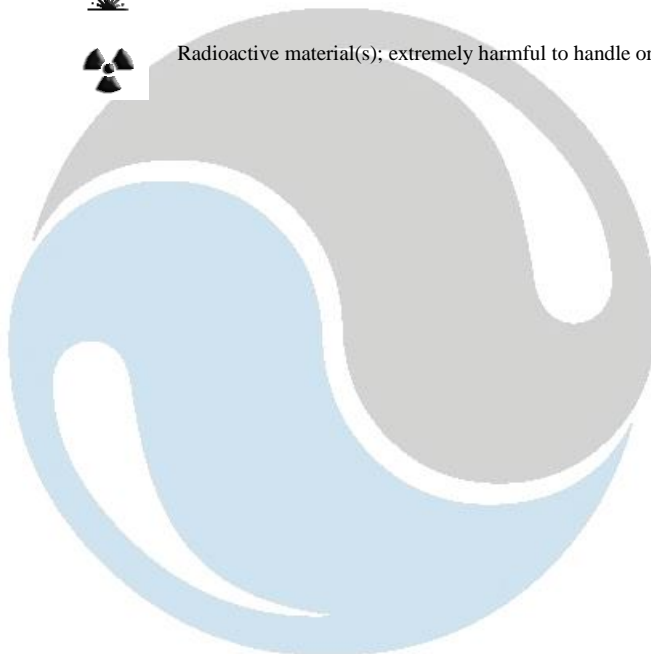
Poison or highly toxic material(s).



Explosive material(s); redundant notation of instability.



Radioactive material(s); extremely harmful to handle or inhale.



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HMIS Health:	2
HMIS Flammability:	2
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

DF 334

Date Effective 01/7/2015

Defoamer**Section One: Product Identification**

Trade Name	DF 334
Chemical Use	Defoamer
Chemical Formula	Confidential
CAS Number	Proprietary Blend

Supplier	TerraChem, Inc. 26868 Henry Rd. Fellows, Ca. 93224 (661) 769-9091
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Chemical Emergency 24 Hour:

Info-Trac 1-800-535-5053

Section Two: Hazardous Identification

Classification of substance or mixture

OSHA/HCS Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS-US Classification(s)	Type	Category	Code	Hazard Statement(s) (GHS-US)
	Aspiration Irritant	1	H304	May be fatal if swallowed and enter airways
	Skin & Eye Irritant	2	H315/H319	Causes skin & eye irritation
	Specific Target Organ Toxicity	3	H336	Harmful in contact with skin or if inhaled.
	Chronic Toxicity (aquatic)	2	H411	Toxic to aquatic life with long lasting effects.

GHS-US Precaution(s)

Code Precautionary Statements (GHS-US)

P210	Keep away from heat, open flames, sparks. - No smoking.
P233 & P235	Keep container tightly closed & cool.
P240	Ground/bond container and receiving equipment.
P243	Take measures against static discharge.
P260	Do not breathe mist, spray & vapors.
P264	Wash hands, forearms, and exposed areas thoroughly after handling.

P271 & P403 Use & store outdoors or in a well

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HMIS Health:	2
HMIS Flammability:	2
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

DF 334

Date Effective 01/7/2015

Defoamer

ventilated area.

P280 Wear eye protection, protective clothing, protective gloves.

P303+P361+P353 Skin contact, remove contaminated clothing. Rinse skin with water or shower.

P304 + P340 For inhalation, remove person to fresh air and keep comfortable for breathing.

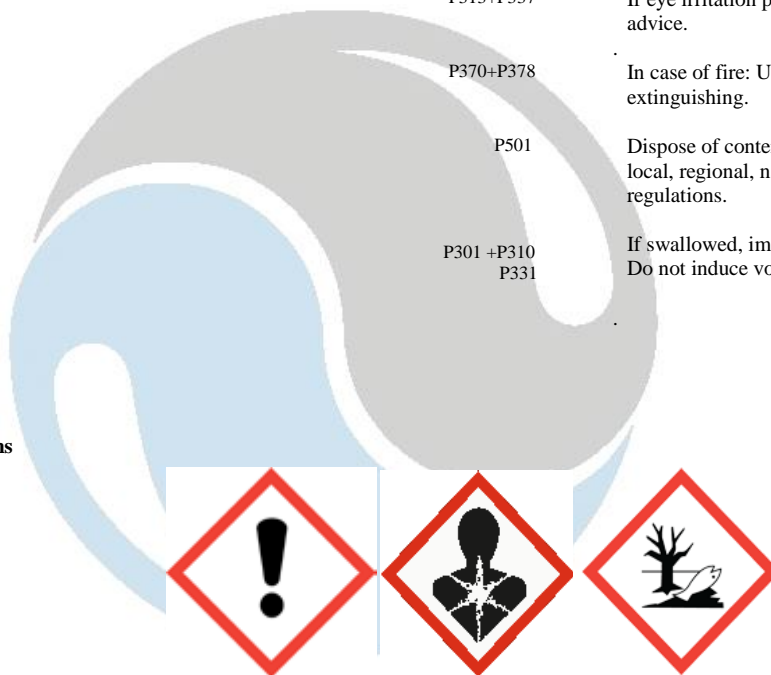
P305+P351+P338 Eye contact, rinse cautiously with water for several minutes.

P313+P337 If eye irritation persists, get medical advice.

P370+P378 In case of fire: Use appropriate media for extinguishing.

P501 Dispose of contents/container according to local, regional, national, and international regulations.

P301 +P310
P331 If swallowed, immediately call physician. Do not induce vomiting

GHS Label Elements**Hazard Pictograms****Signal Word****Danger****Other hazard(s) information**

Routes of Entry	Skin contact, eye contact, inhalation, ingestion.
Carcinogenicity (NTP)	This product is not believed to be carcinogenic.
Carcinogenicity (IARC)	This product is not believed to be carcinogenic.
Carcinogenicity (OSHA)	This product is not believed to be carcinogenic.

Section Three: Composition

	CAS Number	Component Common Name	TWA	STEL	PEL	Weight Percent
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HMIS Health:	2
HMIS Flammability:	2
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

DF 334

Date Effective 01/7/2015

Defoamer

8008-20-6	Petroleum Distillate	NE	NE	NE	70-98%
63148-62-9	Siloxanes and Silicones	NE	NE	NE	2-30%

Section Four: First Aid Measures

Eyes	Flush eyes with water for at least 15 minutes. Seek medical attention.
Skin	Remove contaminated clothing. Flush skin with water.
Ingestion	Drink 3-4 glasses of water. Do not induce vomiting. Seek medical help immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call a physician.

Section Five: Fire Fighting Measures

Flammable Limits, Flash Point	>120° F
Flammable Limits in Air - LEL	NE
Flammable Limits in Air – UEL	NE
Auto Ignition Temperature	~ 410 F
General Hazards	None known.
Extinguishing Media	Foam, dry chemical, carbon dioxide, water spray to cool containers.
Fire Fighting Equipment	Wear self-contained breathing apparatus and protective clothing.
Fire and Explosion Hazards	No unusual hazards expected.
Hazardous Combustion Products	Not available.
Sensitivity to Mechanical Impact	Not expected.
Sensitivity to Static Discharge	Not expected.
Additional Information	No additional information available.

Section Six: Accidental Release Measures

Accidental Release Measures	Eliminate all ignition sources. Contain spill and salvage as much material as possible. Then pick up the remaining with absorbent.
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Section Seven: Handling and Storage

Handling and Storage Guidelines	Keep container tightly closed. Do not consume food, drink, or tobacco in areas where they may become contaminated by this material.
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Section Eight: Exposure Control/Personal Protection

Personal Protective Equipment	Wear appropriate equipment to prevent probability of exposure.
Eye Protection	Goggles or glasses with side shields.
Skin Protection	Wear impervious gloves as a standard handling procedure.
Respiratory Protection	Use NIOSH approved respiratory protection where exposure levels exceed regulatory limits.
Engineering Controls	Do not aerosolize.
Mechanical Exhaust	Required in confined spaces.

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HMIS Health:	2
HMIS Flammability:	2
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

DF 334

Date Effective 01/7/2015

Defoamer

Local Exhaust	Recommended to keep fumes from concentrating.
Emergency Response Protection	No additional specialized equipment should be required.

Section Nine: Physical and Chemical Properties

Physical Form	Liquid
Appearance	Clear to Dark Amber
Odor	Mild
Odor Threshold	NA
Boiling Point	>300° F
Melting Point	NA
Freezing Point	NA
Flash Point	NA
Flammability	NA
Specific Gravity	0.80-0.82 (+/- 0.02)
Bulk Density	7.5-7.6 lbs. / gallon
pH	NA (5% in IPA/Water)
Solubility in Water	Insoluble
Evaporation Rate	NA (n-Butyl Acetate = 1)
Vapor Pressure	NA (mm Hg @ 68° F)
Vapor Density	>1 (Air = 1)
Volatile Organic(s)	NA
Auto Ignition Temp	NA
Decomposition Temp	NA
Viscosity	Dynamic

Section Ten: Stability and Reactivity

Stability	Stable at normal temperatures and operating conditions.
Incompatibilities	None known
Decomposition	Decomposition yields carbon dioxide
Polymerization	Polymerization will not occur.

Section Eleven: Toxicological Information

Eye Irritation	Eye contact may be irritating; rinse with water and do not rub.
Skin Irritation	Skin contact may be irritating; wash affected area.
Inhalation Toxicity	Inhalation of this product during manufacturing may be irritating.
Sensitization	Not evaluated.
Chronic/Carcinogenicity	Not evaluated.
Reproduction	Not evaluated.
Mutagenicity	Not evaluated.

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HMIS Health:	2
HMIS Flammability:	2
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

DF 334

Date Effective 01/7/2015

Defoamer

Acute Oral Effects	Not evaluated.
Acute Dermal Toxicity	Not evaluated.
Additional Information	Not evaluated.

Section Twelve: Ecological Information

Ecotoxicity	Not evaluated.
Biological Oxygen Demand (BOD⁵)	Not evaluated.
Chemical Oxygen Demand	Not evaluated.
Activated Sludge Respiration Inhibition Test	Not evaluated.
Additional Information	No additional information available.

Section Thirteen: Disposal Considerations

Container Disposal Management	Dispose of in accordance with local, state, and federal regulations.
RCRA Hazard Class	Under RCRA, it is the responsibility of the user to determine at the time of disposal whether the material meets RCRA criteria for hazardous waste.
Waste Disposal Method	Dispose of in accordance with local, state, and federal regulations.

Section Fourteen: Transport Information

DOT Hazard Class	Combustible Liquid
DOT Proper Shipping Name	NA1993, Combustible Liquid, N.O.S., (Contains Petroleum Distillates), PG III, Guide 128
Packing Group	PG III
UN Number	UN1993
NA Number	NA
Packaging Size	Carboys/Pails, Drums, and Bulk.

Section Fifteen: Regulatory Information

SARA 302/304 RQ	NA
SARA 302/304 TPQ	NA
SARA 311/312 Acute	Yes
SARA 311/312 Chronic	Yes
SARA 311/312 Fire	Yes
SARA 311/312 Pressure	NA
SARA 311/312 Reactivity	NA
SARA 313 List	NA
CERCLA RQ	NA
TSCA Status	All components are registered on TSCA inventory.
CAA	NA
CWA	NA
Additional Information	No additional information available.

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HMIS Health:	2
HMIS Flammability:	2
HMIS Physical Hazard:	0
HMIS Personal Protection:	C

DF 334

Date Effective 01/7/2015

Defoamer**Section Sixteen: Other Information**

HMIS Hazard Classification	Health	Flammability	Physical Hazard	Personal Protection
Classification Code	2	2	0	C
NFPA Hazard Classification	Health	Flammability	Instability	Special Hazards
Classification Code or Markings	2	2	0	

Explanation of NFPA Special Symbols**OX**

Oxidizer; a chemical that can increase the rate of combustion or fire.

W

Reactive with water; avoid using water when fighting a fire involving material.



Corrosive material(s); can be corrosive in either an acid or alkaline state.



Poison or highly toxic material(s).



Explosive material(s); redundant notation of instability.



Radioactive material(s); extremely harmful to handle or inhale.

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